

# RESIDENTIAL PLAN SUBMITTAL

## Small Project Requirements



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The information contained within this packet is to assist you in the preparation of the plans and specifications for your project. The plan documents must provide sufficient information to enable Code Enforcement staff to determine how your project will be constructed, and to ensure your design is compliant with the NC State Residential Code.



Each project plan submittal shall contain two sets of plans drawn to scale and legible. The permit application and plot plan application must also accompany the project submittal. The information within this packet includes a (plan review) check-

list of the information required within the plan documents and sample plans to illustrate the format for your project submittal.

The illustrations are an example of the required content and format for project plans. These illustrations are consistent with the North Carolina State Building Code, but are not complete as additional project specific information would need to be placed in the blanks before it would illustrate a Code compliant project. Building components must be designed and sized to meet the requirements of the North Carolina State Building Code specific to your project. If you have difficulty drafting and designing your project you may want to consult with a licensed general contractor or a design professional.

You may find additional assistance drafting and designing your project plans by visiting the following websites:

[www.homeplanpro.com](http://www.homeplanpro.com)

[www.smartdraw.com](http://www.smartdraw.com)

[www.punch.com](http://www.punch.com)

[www.broderbund.com](http://www.broderbund.com)

[www.homedesignersoftware.com](http://www.homedesignersoftware.com).

Mecklenburg County does not recommend or endorse any of these software programs.

One of the most important things to understand when designing the structural components of your project is "load path." Load path is a commonly used term to

describe the direction or directions a load or series of loads which transfer through the structural components of a residence to bearing on soil.

Loads are imposed onto a structure a number of ways i.e., dead loads (fixed and the weight of the structure itself) and live loads (moving components such as wind, snow, furniture and building occupants). The structural components of a building must be designed to transfer all loads imposed onto a structure to the ground. In other words, loads are "weight" that the structure must be able to withstand.

The path typically starts at the roof and/or floor and travel through rafters, and ceiling/floor joist to the walls, foundation and footings. Sometimes the loads must travel through beams and girders much like a bridge to continue to wall or foundation components. Identifying load path is critical to performing plan review to ensure the structural components have been designed according to the parameters of the North Carolina State Building Code.



# RESIDENTIAL PLAN

## Review Checklist

### FOUNDATION PLAN

### 2006 N.C RESIDENTIAL CODE

|   |            |
|---|------------|
| <input type="checkbox"/> Wall Footing Size                          | Sect R403  |
| <input type="checkbox"/> Foundation Wall Size                       | Sect R404  |
| <input type="checkbox"/> Pier Footing Size                          | Sect R403  |
| <input type="checkbox"/> Pier Location                              | Sect R403  |
| <input type="checkbox"/> Masonry Pier Size                          | Sect R404  |
| <input type="checkbox"/> Concrete Slab Footings                     | Sect R403  |
| <input type="checkbox"/> Vapor Barrier                              | Sect R504  |
| <input type="checkbox"/> Anchor Bolt/Strap Type & Location          | Sect R403  |
| <input type="checkbox"/> Masonry Fireplace Footing/Foundation       | Sect R1001 |
| <input type="checkbox"/> Foundation Waterproofing/Dampproofing      | Sect R406  |
| <input type="checkbox"/> Termite Treatment Noted                    | Sect R320  |
| <input type="checkbox"/> Crawl Space Access                         | Sect R408  |
| <input type="checkbox"/> Crawl Space Ventilation (provide in field) | Sect R408  |
| <input type="checkbox"/> Engineering Documentation Required         |            |

### FRAMING PLAN AND WALL SECTIONS

|  |                  |
|--|------------------|
| <input type="checkbox"/> Girder Size/Spacing/Species/Grade             | Sect R502        |
| <input type="checkbox"/> Floor Joist Size/Spacing/Species/Grade        | Sect R502        |
| <input type="checkbox"/> Floor Truss/I-Joist Layout                    | Sect R502        |
| <input type="checkbox"/> Openings in Floor (headers, trimmers, etc.)   | Sect R502        |
| <input type="checkbox"/> Floor Sheathing                               | Sect R503        |
| <input type="checkbox"/> Stud Size/Spacing/Species/Grade               | Sect R602        |
| <input type="checkbox"/> Wall Header Size                              | Sect R502        |
| <input type="checkbox"/> Wall Insulation                               | Sect N1102       |
| <input type="checkbox"/> Wall Sheathing                                | Sect R602 & R703 |
| <input type="checkbox"/> Point Loads                                   | Sect R602        |
| <input type="checkbox"/> Bracing Knee Walls                            | Sect R802        |
| <input type="checkbox"/> Masonry Flashing/Weepholes                    | Sect R703        |
| <input type="checkbox"/> Ceiling Joist Size/Spacing/Species/Grade      | Sect R802        |
| <input type="checkbox"/> Openings in Ceiling (headers, trimmers, etc.) | Sect R802        |
| <input type="checkbox"/> Ceiling Insulation                            | Sect N1102       |
| <input type="checkbox"/> Interior Wall Covering                        | Sect R702        |
| <input type="checkbox"/> Exterior Wall Covering                        | Sect R703        |
| <input type="checkbox"/> Roof Sheathing                                | Sect R803        |
| <input type="checkbox"/> Decks   | Appendix M       |
| <input type="checkbox"/> Rated Walls/Property Lines                    | Sect R317        |
| <input type="checkbox"/> Jack Studs                                    | Sect R502        |
| <input type="checkbox"/> Engineering Documentation Required            |                  |

Review Checklist continued on page 4

# RESIDENTIAL PLAN

## Review Checklist continued

### FLOOR PLAN

### 2006 N.C. RESIDENTIAL CODE

- |   |                  |
|---|------------------|
| <input type="checkbox"/> Size and Name of Rooms             | Sect R304        |
| <input type="checkbox"/> Size and Location of Windows       | Sect R303 & R308 |
| <input type="checkbox"/> Egress Requirements                | Sect R310        |
| <input type="checkbox"/> Glazing Requirements               | Sect R308        |
| <input type="checkbox"/> Size, Location, and Swing of Doors | Sect R310 & R311 |
| <input type="checkbox"/> Stair Requirements                 | Sect R311        |
| <input type="checkbox"/> Handrail Requirements              | Sect R311        |
| <input type="checkbox"/> Guardrail Requirements             | Sect R312        |
| <input type="checkbox"/> Attic Access                       | Sect R807        |
| <input type="checkbox"/> Garage Separation & 20-min. Door   | Sect R309        |
| <input type="checkbox"/> RESCheck Required                  |                  |
| <input type="checkbox"/> Engineering Documentation Required |                  |

### ROOF PLAN

- |   |           |
|---|-----------|
| <input type="checkbox"/> Rafter Size/Spacing/Species/Grade  | Sect R802 |
| <input type="checkbox"/> Roof Bracing                       | Sect R802 |
| <input type="checkbox"/> Roof Truss Layout                  | Sect R802 |
| <input type="checkbox"/> Hip & Valley Rafters               | Sect R802 |
| <input type="checkbox"/> Ridge Boards                       | Sect R802 |
| <input type="checkbox"/> Collar Beams/Rafter Ties           | Sect R802 |
| <input type="checkbox"/> Field Framing                      |           |
| <input type="checkbox"/> Engineering Documentation Required |           |

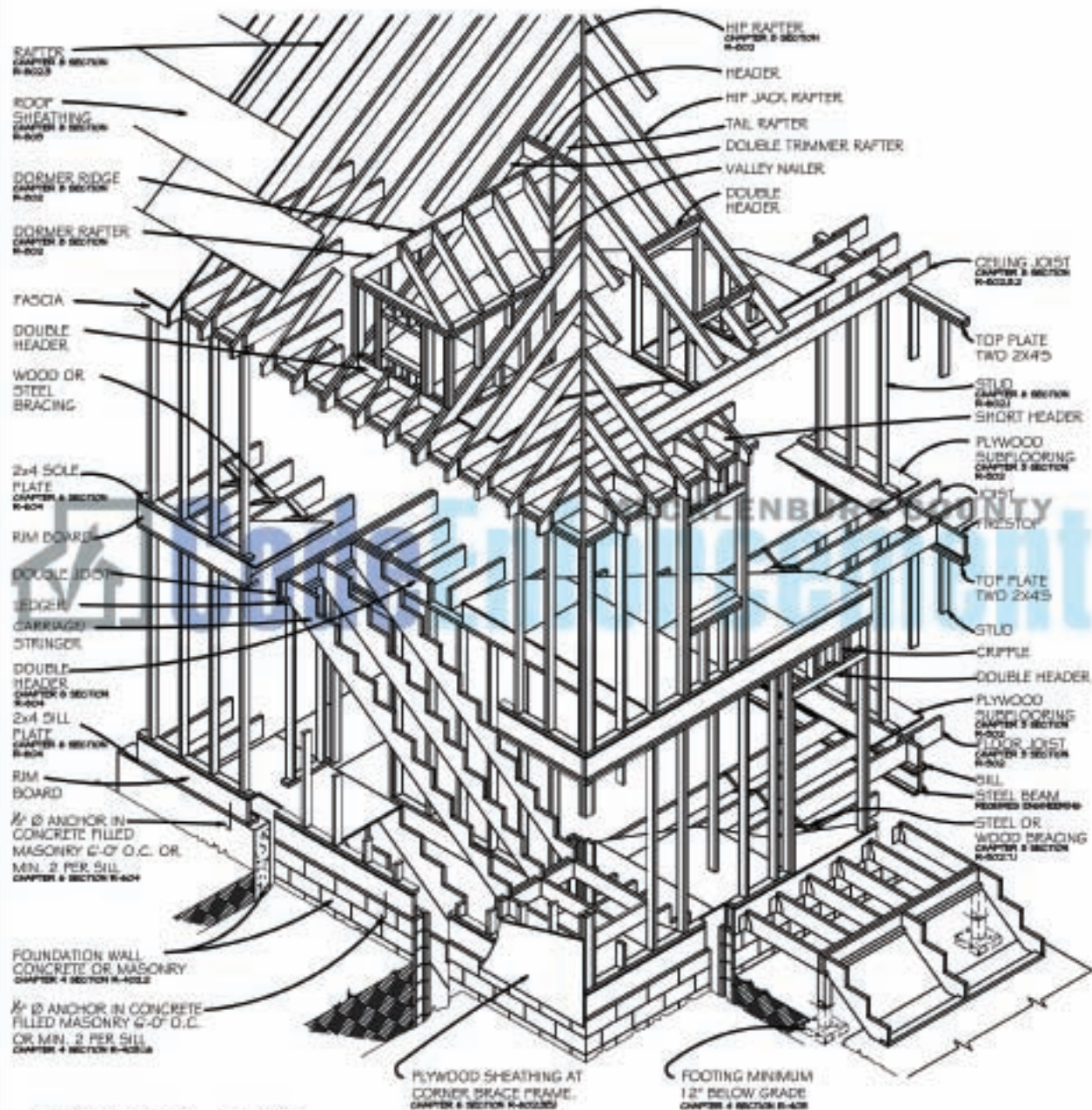
### ELEVATIONS

- |   |                        |
|---|------------------------|
| <input type="checkbox"/> Eave Height                                  |                        |
| <input type="checkbox"/> Roof Pitch                                   | Sect R905              |
| <input type="checkbox"/> Exterior Wall Covering                       | Sect R703              |
| <input type="checkbox"/> Roof Covering                                | Sect R905              |
| <input type="checkbox"/> Roof Ventilation (provide in field)          | Sect R806              |
| <input type="checkbox"/> Chimney Termination/flue size & opening cal. | Sect R1001             |
| <input type="checkbox"/> Flashing (Wall/roof intersections, Crickets) | Sect R703, R903 & R905 |
| <input type="checkbox"/> Brick on Roof Detail                         | Sect R703              |

### GENERAL REQUIREMENTS

- |  |
|--|
| <input type="checkbox"/> Square Footage: Heated, Unheated, and Decks                     |
| <input type="checkbox"/> Drawings to Scale (minimum 1/8")                                |
| <input type="checkbox"/> Name of Designer, Engineer, or Architect with Address and Phone |
| <input type="checkbox"/> Minimum Plan Size: 8-1/2 x 11                                   |
| <input type="checkbox"/> Legibility  |
| <input type="checkbox"/> Notes   |
| <input type="checkbox"/> Required Drawings Missing                                       |





## FRAMING PLAN

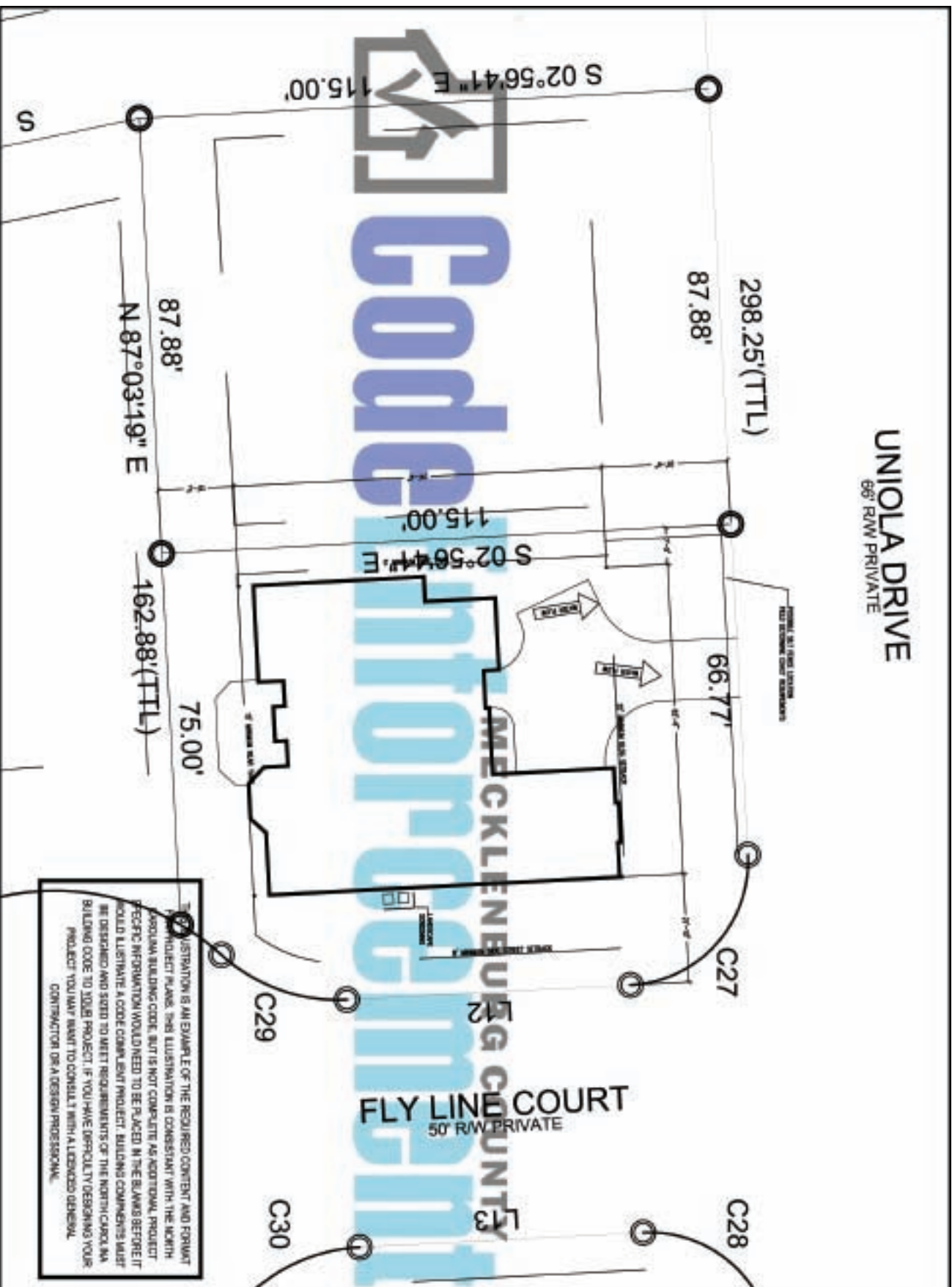
N.T.S.

THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR PROJECT PLANS. THIS ILLUSTRATION IS CONSISTANT WITH THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE AS ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ILLUSTRATE A CODE COMPLIANT PROJECT. BUILDING COMPONENTS MUST BE DESIGNED AND SIZED TO MEET REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO YOUR PROJECT. IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENCED GENERAL CONTRACTOR OR A DESIGN PROESSIONAL.





# UNIO LA DRIVE 66' R/W PRIVATE



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MECKLENBURG COUNTY  
Seal of Mecklenburg County  
Approved by the Board of Commissioners  
January 12, 2015  
Recorded/Documented: 1/12/15

PLEASE SEE  
SHEET 1-3  
(SPECIFICATIONS)  
FOR ALL  
INFORMATION  
THAT IS REQUIRED  
ON THIS SHEET.

SCOPE OF WORK,  
E. REAR ADDITION  
HOUSE/CONCRETE SLAB  
TOWN OF  
MECKLENBURG COUNTY

PROJECT  
MECKLENBURG COUNTY  
E. REAR ADDITION  
HOUSE/CONCRETE SLAB  
TOWN OF  
MECKLENBURG COUNTY

SP-100  
BUILDING DEPT

PROPOSED 2 STORY SINGLE FAMILY  
**MECKLENBURG SAMPLE**

123 MAIN STREET  
ANYWHERE USA 11224

TOWN OF \_\_\_\_\_  
MECKLENBURG COUNTY, NORTH CAROLINA

P R O J E C T   T I T L E /   L O C A T I O N



OWNER: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_  
COUNTY: \_\_\_\_\_  
STATE: \_\_\_\_\_  
ZIP: \_\_\_\_\_  
PROJECT NO.: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_  
PROJECT DESCRIPTION: \_\_\_\_\_  
SCORE: \_\_\_\_\_

DEMOLITION NOTES

GENERAL NOTES

FRONT ELEVATION

- CONCRETE
- CONCRETE BLOCK
- BRICK
- ALUMINUM
- STEEL
- GLASS
- WOOD
- ROOF
- FOUNDATION
- LANDSCAPE



MATERIAL INDEX

SYMBOL INDEX

WOOD NOTES

ELECTRICAL NOTES

INDEX TO DRAWINGS

THIS IS A SAMPLE DRAWING FOR THE MECKLENBURG COUNTY, NORTH CAROLINA, 2018 EDITION. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE MECKLENBURG COUNTY, NORTH CAROLINA, 2018 EDITION IS THE ONLY AUTHORIZED VERSION. ANY OTHER VERSION IS UNAUTHORIZED. THE MECKLENBURG COUNTY, NORTH CAROLINA, 2018 EDITION IS THE ONLY AUTHORIZED VERSION. ANY OTHER VERSION IS UNAUTHORIZED.

MECKLENBURG COUNTY  
Anywhere, USA 11224  
123 MAIN STREET  
ANYWHERE, USA 11224

PLEASE SEE  
SHEET T-3  
(SPECIFICATIONS)  
FOR ALL  
INFORMATION  
THAT IS REQUIRED  
ON THIS SHEET.

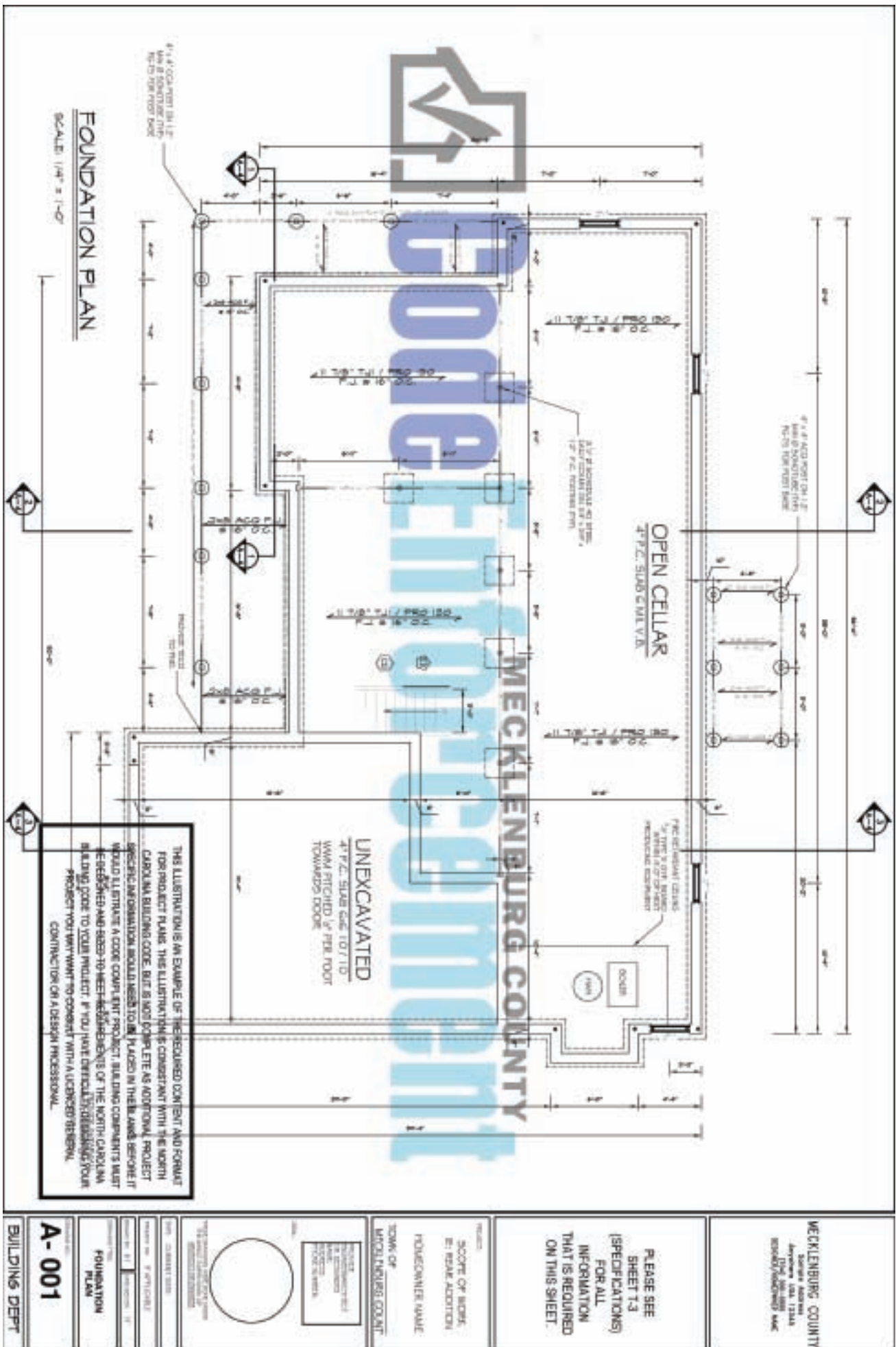
PROJECT: \_\_\_\_\_  
E: \_\_\_\_\_  
HOMESITE NAME: \_\_\_\_\_  
TOWN OF: \_\_\_\_\_  
ARCHITECTING FIRM: \_\_\_\_\_

MECKLENBURG COUNTY  
Anywhere, USA 11224  
123 MAIN STREET  
ANYWHERE, USA 11224

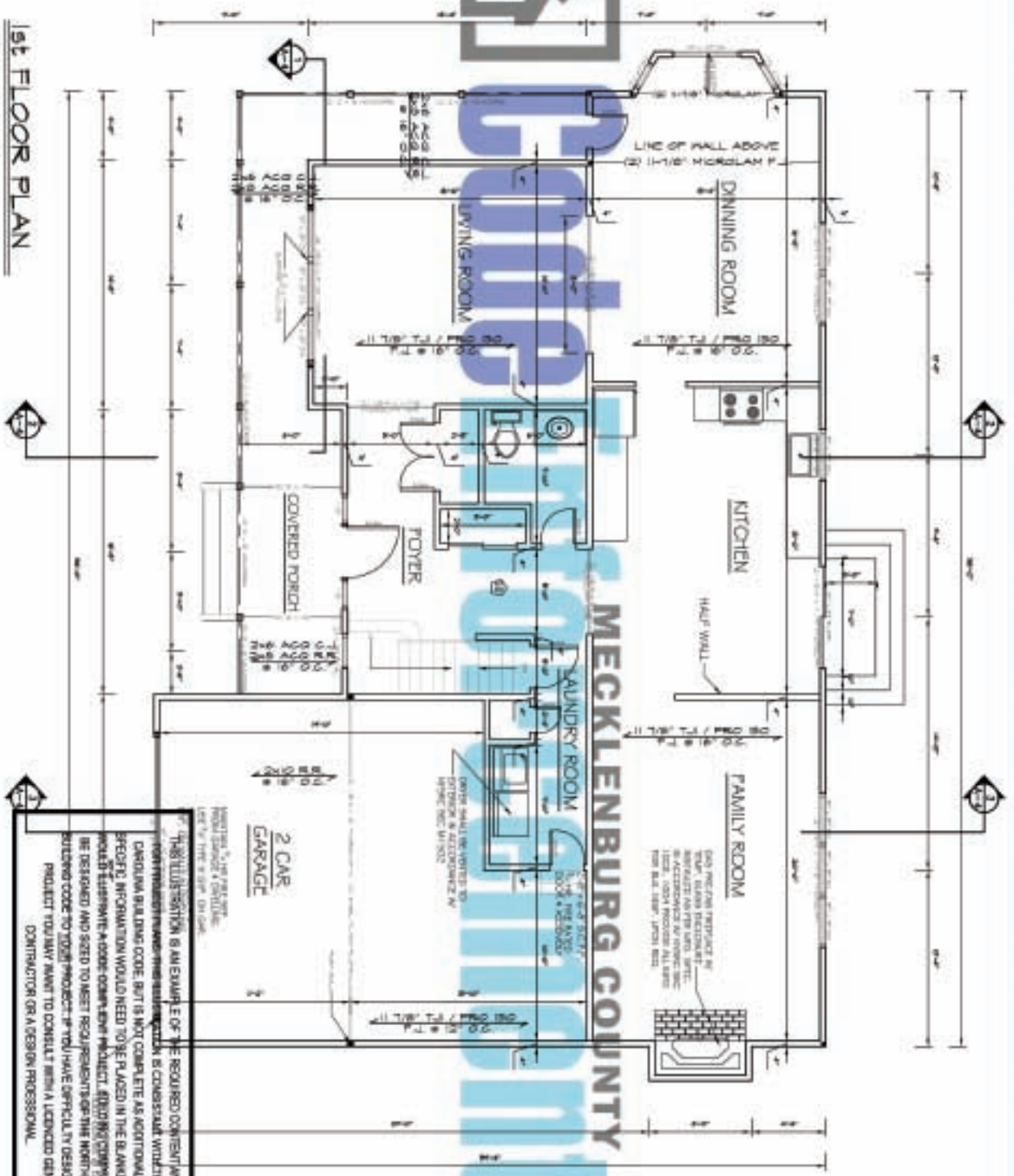
MECKLENBURG COUNTY  
Anywhere, USA 11224  
123 MAIN STREET  
ANYWHERE, USA 11224

BUILDING DEPT





|  |  |   |   |   |                     |                             |               |
|--|--|---|---|---|---------------------|-----------------------------|---------------|
| <b>MECKLENBURG COUNTY</b><br>Building Department<br>1700 W. 10th Street<br>Charlotte, NC 28202 |  | PLEASE SEE<br>SHEET T-3<br>(SPECIFICATIONS)<br>FOR ALL<br>INFORMATION<br>THAT IS REQUIRED<br>ON THIS SHEET. | SCOPE OF WORK:<br>B. REAR ADDITION<br>FOUNDATION WALL<br>FOUNDATION PLAN<br>WORK OF<br>MECKLENBURG COUNTY | PROJECT<br>FOUNDATION<br>PLAN<br>FOR SHEET<br>T-3 | SHEET NO. 1<br>OF 1 | FOUNDATION<br>PLAN<br>A-001 | BUILDING DEPT |
|--|--|---|---|---|---------------------|-----------------------------|---------------|



THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR THE CONTRACTOR'S PRELIMINARY DESIGN. IT IS COUNCIL-APPROVED FOR THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE AS AN ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ESTIMATE A HOME CONSTRUCTION PROJECT. ADDITIONAL COMMENTS MUST BE DESIGNED AND ADDED TO MEET REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO THIS PROJECT IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENSED GENERAL CONTRACTOR OR A DESIGN PROFESSIONAL.

PLEASE SEE  
SHEET T-3  
(SPECIFICATIONS)  
FOR ALL  
INFORMATION  
THAT IS REQUIRED  
ON THIS SHEET.

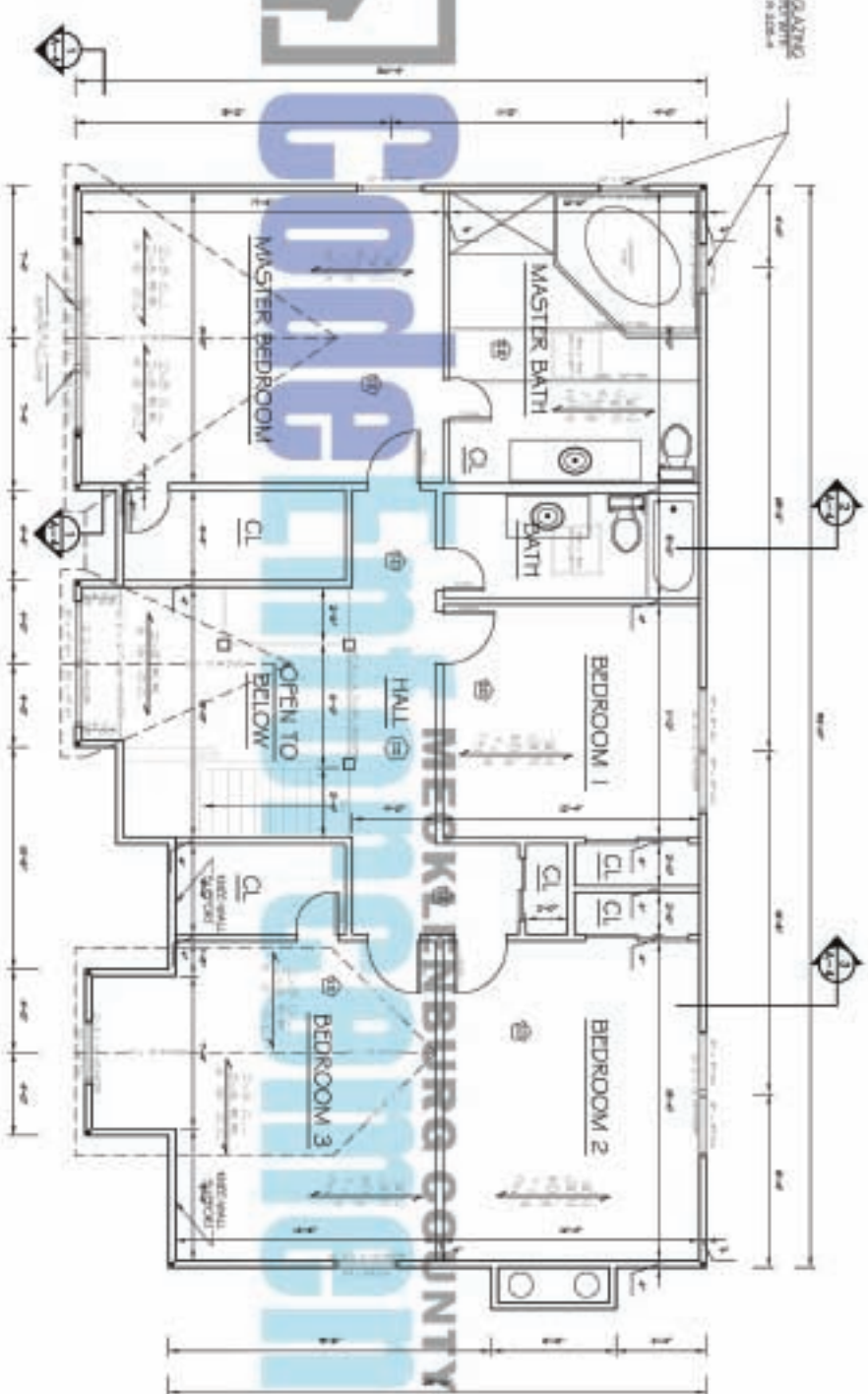
WECHINDENBURG COUNTY  
Sample Address  
Auriferous Hill 12345  
7041 000-0000  
aurore@wechindenburg.com

A-100

BUILDINGS DEPT



HAZARDOUS GLAZING  
STRUCTURAL COMPANY  
8700 W. SEC. 10, BOX 14



## 2nd FLOOR PLAN

SCALE: 1/8" = 1'-0"

THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR PROJECT PLANS. THIS ILLUSTRATION IS CONSISTENT WITH THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE AS AN ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ILLUSTRATE A CODE COMPLIANT PROJECT. BUILDING COMMENTS MUST BE DESIGNED AND SIZED TO MEET REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO THIS PROJECT. IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENSED GENERAL CONTRACTOR OR A DESIGN PROFESSIONAL.

MECKLENBURG COUNTY  
Building Department  
Address: 224 N. Salisbury  
Phone: (704) 990-0929  
Website: mecklenburg.net

PLEASE SEE  
SHEET T-3  
(SPECIFICATIONS)  
FOR ALL  
INFORMATION  
THAT IS REQUIRED  
ON THIS SHEET.

SCOPE OF WORK  
C. ROOM ADDITION  
HORIZONTAL WALL  
TOWN OF  
MECKLENBURG COUNTY

MECKLENBURG COUNTY  
BUILDING DEPARTMENT  
224 N. SALISBURY  
NORFOLK, NC 27564  
704.990.0929  
WWW.MECKLENBURG.NET

PROJECT NO. 22-000000-0000  
SHEET NO. 11  
DATE: 11-11-22  
PROJECT NAME: SECOND FLOOR  
A-200

BUILDING DEPT









# **STRUCTURAL**

CONTAINING A FUNDAMENTAL, MECHANICAL, ELECTRICAL, PLUMBING, AND HEATING.

WORKING DRAWINGS FOR BUILDINGS, PLANS, SECTIONS AND DETAILS.

THE WORKING DRAWINGS ARE GRAPHICAL PICTURES OF THE STRUCTURAL COMPONENTS

AND PLANNING TO BUILD. TWO SETS ARE REQUIRED. THESE WORKING DRAWINGS ARE

USED TO PROVIDE LISTS WITH INFORMATION ON HOW APPLICANTS PLAN TO

CONSTRUCT A PROPOSED PROJECT. SINCE THE CONSTRUCTION OF MOST BUILDINGS IS

WOOD FRAMED, THE WORKING DRAWINGS ARE IN WOOD FRAMED. IF APPLICANTS PLAN TO

USE A DIFFERENT TYPE OF MATERIAL, A NOTE MUST BE ON THE DRAWING. MATERIALS PLANS

STRUCTURE, CALCULATIONS AND PLANS DRAWN BY A LICENSED ENGINEER MAY BE

REDESIGNED IF CALCULATIONS PLAN TO BUILD ON A STEEP SLOPE. PROPOSE TO BUILD

HIGHER THAN TWO STORES, ON PLAN TO USE UNCONVENTIONAL MATERIALS, PLANS

CONTRACT DORS FOR A PRE-APPLICATION MEETING. THE REDESIGNING COUNTY

BUILDING OFFICIAL MAY REQUIRE ADDITIONAL DRAWINGS, DETAILS, SECTIONS, OR

STANDARD ENGINEERING CALCULATIONS. APPROX DETAILS FOR ANY BUILDING ON SITE.

THE FOLLOWING DRAWINGS ARE REQUIRED:

ALL PLANS SHOULD BE A MINIMUM OF 1/4" X 3/4" ON 8 1/2" X 11" FOR SMALL PROJECTS.

TEXT NOTES FOR SMALL DRAWINGS ARE 1/8" AND 3/16" FOR SMALL.

"FOUNDATION PLANS - (REQUIRED SCALE: 1/4" = 1' - 0")

"FLOOR PLANS OF EACH FLOOR - (REQUIRED SCALE: 1/4" = 1' - 0")

"INDICATE SQUARE FOOTAGE OF CONCRETED SPACE, BALCONY, CLIMBERS,

CUTTING EDGES AND DECKS, AND

-DESCRIPTIVE USE OF EACH ROOM OR SPACE. THE NUMBER OF ROOMS SHOULD

EQUAL THOSE ON THE SPECIFIC DESIGN APPROVED BY THE CHARLOTTE-MECKLENBURG

COUNTY DEPARTMENT OF PUBLIC HEALTH.

"BATHING CROSS SECTION - (STUDY THROUGH THE MOST COMPLEX AREA)

(REQUIRED SCALE: 1/4" = 1' - 0")

"ELEVATION - (RECOMMENDED SCALE: 1/4" = 1' - 0" FOR ALL SECTIONS OF THE BUILDING)

"ROOM PLANS - MAY BE REQUIRED ON THE IMPROVED FLOOR PLAN

(REQUIRED SCALE: 1/4" = 1' - 0")

"ROOM PLANS - MAY BE REQUIRED ON A FLOOR OR FOUNDATION PLAN

(REQUIRED SCALE: 1/4" = 1' - 0")

"STRUCTURAL STRUCTURAL DETAILS - (RECOMMENDED SCALE: 1/4" = 1' - 0")

"STRUCTURAL WALL SECTION - (RECOMMENDED SCALE: 1/4" = 1' - 0")

"CLIMBER AND WINDWALL SECTION

"STARTED TOGETHER WITH FLOOR PLAN AS THE FIRST SHEET

"IN ORDER, WITH EACH PAGE NUMBERED CONSECUTIVELY;

"NO FLOOR, DRAWINGS, AND

"REPRODUCTION ON SEPARATE PAPER AND REQUIRE

ADDITIONAL INFORMATION WHICH MAY BE REQUIRED.

"ENERGY CODE COMPLIANCE AS REQUIRED CHAPTER 11 INSULATION SHALL BE AS

FOLLOWING: ROOF: R-30, WALLS: R-13, AND FLOORS: R-11. ALL GLAZING TO BE LOW-E.

"FOR ADDITION, INCLUDE THE FLOOR PLANS OF EXISTING ADJACENT ROOMS, SHOW

LOCATION OF WINDOWS AND THEIR SIZES AND HOW THEY OPERATE (HORIZONTAL,

SLIDER FOR EXAMPLE).

"MECHANICAL CALCULATIONS AND DETAILS FOR MECHANICAL WALLS OTHER THAN FAN

TABLE: MECH ROOM: ROOM SPEC: R-14, L3

"ENGINEERING CALCULATIONS AND DETAILS FOR DECKS, JOISTS, TRUSSES, LATHING,

LOADS (WIND LOADS, DEADLOAD, AND SPECIAL CONNECTIONS,

"THE INSPECTION BY THE INSPECTION/INSPECTION OF RECORD MAY BE REQUIRED FOR

SPECIAL RECORDS;

"SHOW LOADS WILL BE COMPUTED USING MECHANICALS COUNTY SHOW LOAD

ANALYSIS BASED ON THE SHOW LOAD ANALYSIS FOR NORTH CAROLINA.

# **MECHANICAL, ELECTRICAL, PLUMBING, AND HEATING**

1. LINE OF STRUCTURE ABOVE - (PARTICULARLY OVERHANGS AND CORNERS),

ROOF, ETC.

2. CHAIR, SPACE, VENTS - CALL OUT SIZE, SIZE AND QUANTITY

3. CHAIR, SPACE ACCESS - CALL OUT SIZE OF OPENING

4. TYPE OF FOUNDATION - EXAMPLE: CONCRETE, WOOD ON MASONRY - CALL OUT SIZE,

5. FOUNDATION CONTINUATION AND FLOOR - CALL OUT SIZE,

6. CONCRETE - CALL OUT NUMBER SIZE,

7. BEARING WALL - CALL OUT FOR CLARITY,

8. FRAMING (FLOOR, ROOF, SECOND - SHOW DIRECTION OF LAYOUT, SIZE, SPACING, GRADE

AND SPACING (EXAMPLE: ROOF RAFTERS 2 X 8 S.P., @ 8" O.C.)

9. BEARING WALLS - CALL OUT SIZE, SPACING AND GRADE. EXAMPLE: 12" X 8" S.P.

10. E.P., E.P.

11. CAROLING-COVER - 3/4" POLYETHYLENE OR EQUIVALENT

12. CONNECTIONS - BEAR TO BEAR, PORT TO BEAR, TRUSS TO BEAR, HANGING, CALL

OUT SIZE, PROVIDE DETAIL, AND ENGINEERING FOR CUSTOM FABRICATED CONNECTIONS;

13. MISCELLANEOUS STRUCTURAL COMPONENTS - SHOW DOUBLED JOIST, BLOCKING,

ETC.

14. BRACES (HORIZONTAL, LABEL, AREA, GRADE, SPACE, CLUSTER, BEARING,

BECK, ETC.

15. STAIRS - SHOW DIRECTION OF TRAVEL (UP OR DOWN), REFER TO MECH. SEC. R-11.1

16. TOILET FIXTURES,

17. MECHANICAL VENTILATION,

18. DOORS - SHOW SWINGS, IF POCKET DOOR, SHOW POCKET AREA, CALL OUT SIZES TO

COMPLY W/ MECH. SEC. R-11.1, R-11.1.1, AND R-11.1.4

19. BATHING DOORS - CALL OUT SIZE,

20. WINDOWS - CALL OUT SIZE, INDICATE IF FIXED OR OPEN, IF OPEN, SHOW SIZE, MEET

MEET MECHANICAL REQUIREMENTS FOR LIGHT AND VENTILATION, WINDOWS IN BATHING

AREAS MUST MEET MECH. SECTION R-11.1

21. HALF WALLS/STAIRWALLS - SHOW HEIGHT,

22. STAIRS - CALL OUT TYPE, IF WOOD, CALL OUT SIZE;

23. LINE OF FLOOR ON CEILING OVERHANG - CALL OUT STAIRS, ELEVATOR SHAFTS,

CLIMBER CHAIRS OR DOWNSTAIRS, ETC.

24. DOWNSTAIRS - CALL OUT SIZE;

25. ATTIC ACCESS - CALL OUT SIZE, COMPLY W/ MECH. SECTION R-11.1

26. OVERHEAD - DETAIL PER MANUFACTURER'S SPECIFICATIONS, CHIMNEYS MUST

EXTEND 7' OF VERTICALLY ABOVE ANY STRUCTURE WITHIN 10' - 8' MEASURED

HORIZONTALITY;

27. ROOFS - CALL OUT SIZE AND SPACING OF ROOFING;

28. VENTS - CALL OUT SIZE AND SPACING OF VENTILATION;

29. VALLEYS - CALL OUT SIZE AND SPACING OF VALLEY RAFTER;

30. ROOF FRAMING - TRUSSES - SHOW DIRECTION OF LAYOUT, CALL OUT SPACING,

SHOW AND LABEL HIP RAFTERS, HIP JACKS, END JACKS, GABLE TRUSSES, HANGERS,

RAISING AREA, ETC. - CONVENTIONAL, ROOF FRAMING - SHOW DIRECTION OF ROOF

RAFTER AND CEILING JOIST LAYOUT, CALL OUT SPACING, AND - SHOW AND LABEL

RAFTER TIES, PURLINS, BLOCKING, SUPPORT JOINTS, BEARING POINTS ANCHOR WALLS,

ETC.

31. SHEDS DETAILING,

32. CONCRETE FOUNDATION - 4" MATERIAL UNBALANCED DIRECTION, IF HIGHER, GRANT

ENGINEERING CALCULATIONS AND DETAILS WITH STAIRS FROM LICENSED

PROFESSIONAL ARCHITECT OR ENGINEER.

33. CONCRETE FOUNDATION WITH CONCRETE WALL - 4" MATERIAL UNBALANCED

SHOULDER, REINFORCED AT BASE BY CONCRETE FLOOR, IF HIGHER, GRANT

ENGINEERING CALCULATIONS AND DETAILS FROM LICENSED PROFESSIONAL

ARCHITECT OR ENGINEER.

# **MECHANICAL, ELECTRICAL, PLUMBING, AND HEATING**

1. LINE OF ROOF - SHOW ROOF AND RISE,

2. FRESH ROOF MATERIAL - CALL OUT TYPE OF ROOFING, SPECIFY INSTALLMENT

AND/OR UNDERLAYMENT,

3. ROOF SHEATHING - CALL OUT SIZE, INDICATE IF SOLID OR SPACED;

4. ROOF MEMBERS - CALL OUT SIZE, INDICATE IF STICK FRAMED OR TRUSSED;

5. INSULATION BATTLE - 7" MINIMUM CLEAR VENTED AIR SPACE ABOVE THE

INSULATION;

6. EAVE BLOCKING/ATTIC VENTILATION;

7. CUTTER,

8. OVERHANG - OVERHANG,

9. CEILING INSULATION - CALL OUT R VALUE;

10. CEILING WALL BOARD (GWB) - CALL OUT THICKNESS;

11. FLOOR - CALL OUT SYSTEM, INDICATE INSULATION AND ANY LEVEL CHANGES.

EXAMPLE: 3/4" TWO PLIES OVER 2 X 8 STUDS @ 16" O.C. WITH 1/2" GWB.

12. WALL - CALL OUT SYSTEM, (EXAMPLE: EXTERIOR - 1 X 8 BEVEL, EXTERIOR SLOPE OVER

12" GWB).

13. WALL - CALL OUT SYSTEM, (EXAMPLE: EXTERIOR - 1 X 8 BEVEL, EXTERIOR SLOPE OVER

12" GWB).

14. STUDS - WALLS SUPPORTING TWO FLOORS, ROOF AND CEILING BETWEEN 2 X 8 OR 2 X

6 SPACED @ 16" O.C.

15. FOR FOUNDATIONS SUPPORTING ROOF, EXTEND CONCRETE 8" ABOVE GRADE;

16. DAMPPROOFING AND WATERPROOFING OF FOUNDATION WALLS INCLUDING A ROOM

BELOW GRADE - REFER TO MECH. SECTION R-11.1 AND SECTION R-11.2.

17. FOUNDATION WALL - INDICATE TYPE OF CONSTRUCTION AND SIZE, REFER TO MECH

SECTION R-11.1.

18. FOUNDATION WALL - INDICATE TYPE OF CONSTRUCTION AND SIZE, REFER TO MECH

SECTION R-11.1.

19. FOUNDATION WALL - INDICATE TYPE OF CONSTRUCTION AND SIZE, REFER TO MECH

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20. FOUNDATION WALL - INDICATE TYPE OF CONSTRUCTION AND SIZE, REFER TO MECH

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41. FOUNDATION WALL - INDICATE TYPE OF CONSTRUCTION AND SIZE, REFER TO MECH

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42. FOUNDATION WALL - INDICATE TYPE OF CONSTRUCTION AND SIZE, REFER TO MECH

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48. FOUNDATION WALL - INDICATE TYPE OF CONSTRUCTION AND SIZE, REFER TO MECH

SECTION R-11.1.

49. FOUNDATION WALL - INDICATE TYPE OF CONSTRUCTION AND SIZE, REFER TO MECH

SECTION R-11.1.

# **MECKLENBURG COUNTY**

Approved by:

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Approved by:

Approved by:





# MECKLENBURG COUNTY

Sample Address  
Anywhere USA 12345  
(704) 000-0000  
DESIGNER/HOMEOWNER NAME

PLEASE SEE  
SHEET T-3  
(SPECIFICATIONS)  
FOR ALL  
INFORMATION  
THAT IS REQUIRED  
ON THIS SHEET.

PROJECT

SCOPE OF WORK:  
IE: REAR ADDITION

HOMEOWNER NAME

TOWN OF \_\_\_\_\_  
MECKLENBURG COUNTY

PROVIDE  
ENGINEER/ARCHITECT  
OR DESIGNER'S  
NAME  
ADDRESS:  
PHONE NUMBER:

LOCAL



THESE DRAWINGS WERE DONE UNDER  
THE DIRECT SUPERVISION OF  
ARCHITECT OR ENGINEER

DATE: (CURRENT DATE)

EXISTING: (IF APPLICABLE)

DRAWN BY: (NAME)

CHECKED BY: (NAME)

DRAWING TITLE

**FOUNDATION  
PLAN**

DRAWING NO.

**A- 001**

**BUILDING DEPT**

Mecklenburg County  
Code Enforcement  
Residential Technical  
Assistance Center (RTAC)  
700 N. Tryon St.  
Charlotte, NC 28202  
704.432.7822